TABLE OF CONTENTS

CATEGORY	PRODUCT	DESCRIPTION	PAGE
QUAD SPLITTER	AVT-8120	Composite Video In/Out	2
AUDIO CONVERTERS	POF-820	Coaxial to Toslink	2
	POF-830	Toslink to Coaxial	2
VIDEO SCALERS	AVT-3320	Video to PC Up Converter	3
	AVT-3420	Video to PC w/TV Tuner	3
	1T-V1280HD	Video to PC/HD Up Converter	4
	VS-612	Video to HDMI Up Converter	4
	1T-PC1280HD	PC/HD Cross Converter	5
	1T-VS-434	PC/HD Cross Converter	5
	1T-PCDVI-PCDVI	PC/HD/DVI Cross Converter	6
	1T-AVPC-HDMI	HDMI Up/Cross Converter	6
	AVT-3900	HDMI Up Converter	7
	AVT-3800	HDMI/PC/HD Up Converter	7
DOWN CONVERTERS	CS-320	Analog PC to Video	8
	CS-450	Analog PC to Video w/Overlay	8
	AVT-3155A	Analog PC to Video	9
	AVT-3160	Analog PC to Video	9
	AVT-3190	Analog PC/HD to Video	10
	VS-223	Analog YPbPr to Video	10
	VS-226	HDMI to Video	11
SIGNAL SPLITTERS	AVT-6114	HDMI 1x4 Splitter	12
	AVT-4914	YPbPr 1x4 Splitter	12
	VGA-201P	VGA 1x2 Splitter	13
	AVT-4214	VGA 1x4 Splitter	13
	AVT-4814	S-Video 1x4 Splitter	14
	AVT-4818	S-Video 1x8 Splitter	14
	AVT-4714	Composite Video 1x4 Splitter	15
	AVT-4718	Composite Video 1x8 Splitter	15
ROUTING SWITCHERS	AVT-6041	HDMI 4x1 Switcher v1.3	16
	AVT-6441	HDMI 4x1 Switcher v1.4	16
	AVT-6071	Multi-Format /Audio7x1 Switcher	17
	AVT-5842MX	YPbPr/Audio 4x2 Matrix Switcher	17
	AVT-5841	C-Video/Audio 4x1 Switcher	18
	AVT-5831	YPbPr/Audio 3x1 Switcher	18
	AVT-5641	Composite/S-Video Switcher	19
	AVT-5231	Composite/S-Video Switcher	19
TIME BASE CORRECTORS	AVT-8710	Compact Version	20
	CTB-530TR	Rackmount Version	20
STANDARDS CONVERTERS	AVT-1660	Compact Version	21
	CDM-830TR	Rackmount Version	21
GENERAL INFORMATION		Warranty Policy	22
		Return Policy	22
		Glossary of Terms	22

Due to our policy of constant improvement, we reserve the right to alter specifications without notice. Copyrights and Trademarks acknowledged.

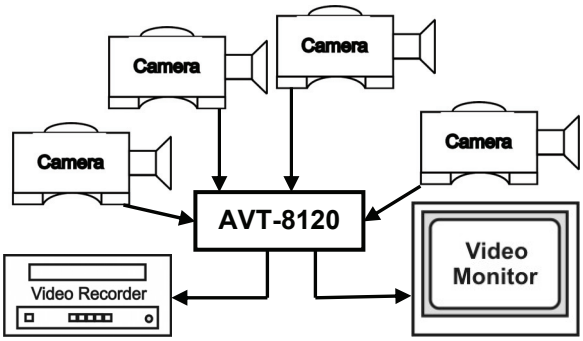
AVT-8120 Quad Splitter

AVT-8120 Quad Splitter combines four separate Composite Video signals from cameras or other video sources onto one video screen for simultaneous displaying and recording. It has real-time image refresh and digital image processing for superior performance. Select between 30 or 60 fields per second. Video Inputs are via BNC connectors.

Composite Video Outputs are provided for a monitor and a VCR to allow recording of the output. Because the unit has a built-in Time Base Corrector, it does not require special cameras or external synchronization. All four video inputs will be synchronized. The AVT-8120 is ideal for security monitoring or video preview applications where multiple images are required in a limited space. Power Supply is included.

AVT-8120 Features and Specifications

- Inputs: 4x Composite Video
- Outputs: 2x Composite Video
- Built in Time Base Corrector
- Selectable 30/60 Field Operation
- Maximum Video Images: 4
- Maximum Image Positions: 9
- Automatic Video Gain Control (Each Channel)
- NTSC or PAL
- Built in Sequential Switcher
- Size: 2”Hx9.4”Wx8.2”D (52x238x209mm)
- Weight: 2.85 lbs (1.3kg)



POF-820
Coaxial-to-Optical Audio Converter

POF-820 Coaxial-to-Optical Digital Audio Converter transforms an RCA Coaxial (S/PDIF) Digital Audio signal to a Toslink Optical Digital Audio signal. This capability allows conversion between the most common digital audio formats. For example, you can connect a DVD Player or Sound Card with Coaxial Digital Out to a Digital Amp with a Toslink Input.

POF-820 Features and Specifications

- Input: Coaxial Digital S/PDIF Audio
- Output: Optical Digital Audio
- Input Connector: RCA
- Output Connector: Toslink Optical
- Transform S/PDIF Audio to Digital Audio
- Size: 0.8”Hx2.8”Wx1.8”D (23x72x47mm)
- Weight: 0.07 lbs (30g)

POF-830
Optical-to-Coaxial Audio Converter

POF-830 Optical-to-Coaxial Digital Audio Converter transforms a Toslink Optical Digital Audio signal to an RCA Coaxial (S/PDIF) Digital Audio signal. Power Supply is included.

POF-830 Features and Specifications

- Input: Optical Digital Audio
- Output: Coaxial S/PDIF Digital Audio
- Input Connector: Toslink Optical
- Output Connector: RCA
- Transform Digital Audio to S/PDIF Audio
- Size: 0.8”Hx2.8”Wx1.8”D (23x72x47mm)
- Weight: 0.07 lbs (30g)

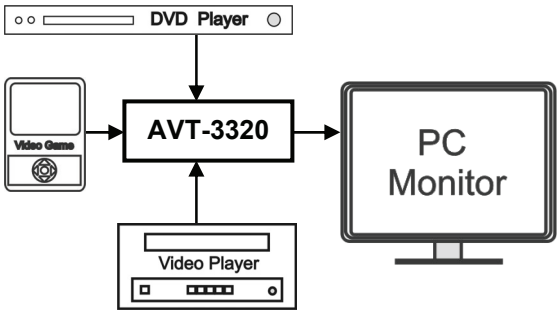
AVT-3320 Analog Video to UXGA Scaler

AVT-3320 allows you to view virtually any video source in high resolution on a PC Monitor. It has both Composite Video and S-Video inputs that can be up converted to XGA, SXGA or UXGA. It works with almost any video signal in either NTSC or PAL standards, such as from a VCR, DVD or video game.

The output resolution is switch selectable. Advanced features include Motion Adaptive Y/C Separation of Composite Video (3D Comb Filtering), Motion Adaptive 3D YNR/CNR Noise Reduction for S-Video Input and Automatic 2:2 and 3:2 Film Mode Detection. Power Supply is included.

AVT-3320 Features and Specifications

- PC Outputs: XGA, SXGA, UXGA
- Inputs: Composite, S-Video
- NTSC and PAL Automatic Input Detection
- Power Adapter: 5VDC
- Size: 0.9"Hx3.9"Wx2.5"D (24x100x64mm)
- Weight: 0.44 lbs (200g)



AVT-3420 Video to SXGA Scaler with Tuner

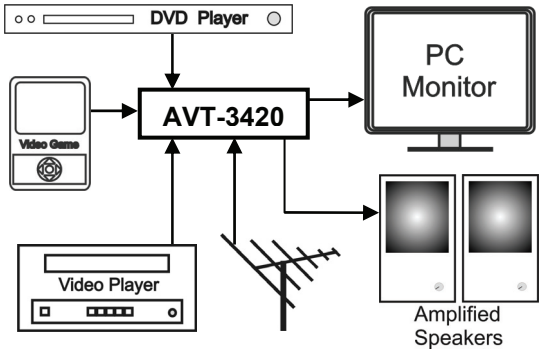
AVT-3420 is a low cost Video-to-WUXGA Converter with Picture-in-Picture capability and a built in tuner. With Picture-in-Picture, you can work on a computer application and view a TV program, video or DVD at the same time. The WUXGA Scaler turns any Computer Monitor into a true multimedia center by merging your computer with a wide variety of external video and audio devices.

It accepts external video and audio from a video game, VCR, camcorder, DVD Player, satellite receiver or virtually any other video source for display on a computer monitor or LCD Display. The built in TV Tuner also allows you to watch cable or TV Stations on your computer monitor. A computer is not required for normal operation of this unit. Power Supply is included.

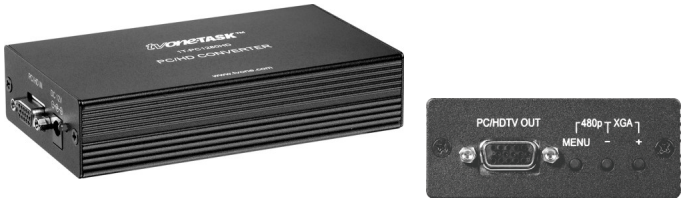
Note - AVT-3420 Not Available in Europe

AVT-3420 Features and Specifications

- PC Outputs: XGA thru WUXGA
- Inputs: Composite, YPbPr Component
- Analog and Cable TV Tuner
- Picture-in-Picture with 2 Sizes
- IR Remote Control Included
- PC Monitor Loop-thru via HD-15 Connectors
- Stereo Audio Input and Output
- Adjustable Brightness, Contrast, Color & Tint
- Power Adapter: 5VDC
- Size: 1.25”x7.6”x4.75” (32x193x120mm)
- Weight: 0.75 lbs (340g)



1T-V1280HD Analog Video to PC/HD Scaler

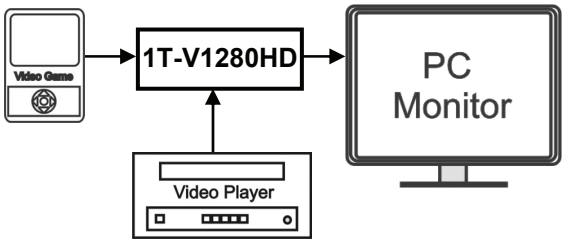


1T-V1280HD Video Scaler is an ultra compact video to analog PC/HD up-converter that features inputs for Composite Video, YC (S-Video) and Component 480i or 576i YUV Video. The output resolution and refresh rate can be selected from a wide variety of presets up to 1600x1200 and 1080p. PC and HD resolutions are available in analog RGBHV and HD resolutions are also available in analog YPbPr format.

The integral processor provides control over many signal parameters, such as Contrast, Brightness, Color and Hue (NTSC). Power Supply with locking DC connector is included. Note – A SCART version is available in Europe.

1T-V1280HD Features and Specifications

- PC Outputs: Up to UXGA
- HD Outputs: Up to 1080p
  Note - 1080i resolution is 540p doubled
- Inputs: Composite ,S-Video, YUV Component
- NTSC and PAL Automatic Input Detection
- Locking DC Power Connector for security
- External Power Adapter: 5VDC@2A
- Size: 30x133x76mm (1.2"x5.25"x3")
- Weight: 0.62 lbs (280g)



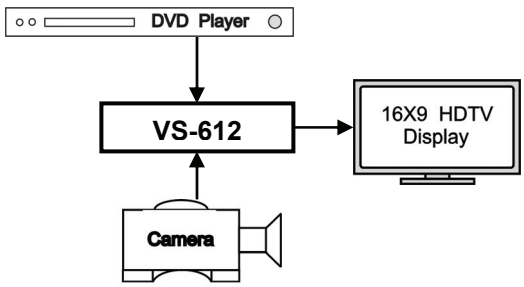
VS-612 Analog Video/Audio to HDMI Scaler

VS-612 CV/SV to HDMI Up Converter converts standard definition analog Composite or S-Video signals to digital HDTV version 1.3 HDMI signals. It will also provide a compliant DVI signal with an appropriate adapter cable. It provides a way to embed analog stereo audio signals into the HDMI Datastream and has extensive signal conditioning capabilities including 3D (Frame Based) noise reduction, block noise reduction and MPEG noise reduction. Advanced 3D adaptive de-interlacing, 8/10/12 bit deep color processing is included to support 1080p requirements.

An automatic lip sync restorer is included as is EDID automatic monitor resolution determination. The VS-612 automatically detects the input signal's format (NTSC or PAL) and is fully compliant with HDMI v1.3, DVI v1.0 and HDCP v1.1 specifications. Power Supply with locking DC connector is included. Note – A SCART version is available in Europe.

VS-612 Features and Specifications

- HD Outputs: Up to 1080p
- 1080p 12 bit Deep Color Support
- PC Output: VGA (from NTSC only)
- Inputs: Composite ,S-Video, Stereo Audio
- Embeds analog audio into the HDMI signal
- Automatic NTSC/PAL Detection
- Automatic EDID Monitor Support
- HDMI 1.3, HDCP 1.1, DVI 1.0 Compliant
- 3D, Block and MPEG Noise Reduction
- Automatic Lip Sync Restoration
- 3D Adaptive De-interlacing
- Locking DC Power Connector for security
- External Power Adapter: 5VDC@2A
- Size: 1"x3.9"x6.2" (25x100x157mm)
- Weight: 0.75 lbs (332g)



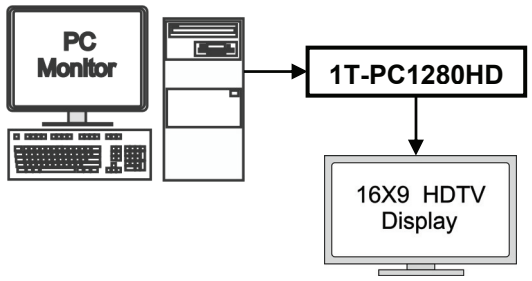
1T-PC1280HD PC/HD Cross Converter

1T-PC-1280HD Video Scaler is a Cross Converter for PC and HD formats and resolutions. The input resolution is automatically detected and can either be RGBHV, YPbPr or YUV format. Output Resolutions up to 1920x1200 and 1080p are accommodated. In addition to converting between PC and HD, the unit can take a 480i Component Video signal (from a DVD Player for example) and convert it to PC or HD.

The output resolution and refresh rate is selected via push buttons or an On Screen Display. The integral processor provides control over many signal parameters, such as: Contrast, Brightness, Color Saturation, R-G-B Levels and H-V Positioning. Power Supply with locking DC connector is included.

1T-PC1280HD Features and Specifications

- PC Inputs/Outputs: Up to 1600x1200
- HD Inputs/Outputs: Up to1080p
  Note - 1080i resolution is 540p doubled
- Input: RGBHV, YPbPr, YUV Component
- Output: RGBHV, YPbPr
- Locking DC Power Connector for security
- External Power Adapter: 5VDC@2A
- Size: 30x133x76mm (1.2"x5.25"x3")
- Weight: 0.62 lbs (280g)



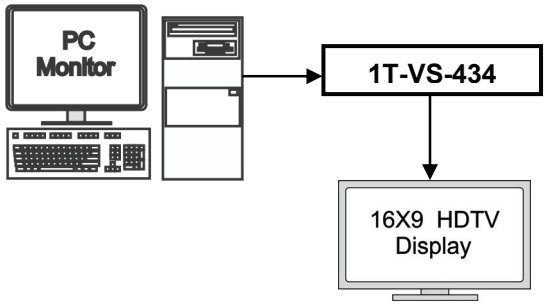
1T-VS-434 PC/HD Cross Converter

1T-VS-434 PC/HD Cross Converter is a Scaler for PC and HD formats and resolutions. The input resolution is automatically detected and can either be RGBHV or YPbPr format. Output Resolutions up to 1920x1200 and 1080p are accommodated. In addition to converting between PC and HD, the unit can take a 480i Component Video signal (such as from a DVD Player) and convert it to PC or HD.

The output resolution and refresh rate is selected via push buttons on an On Screen Display. The integral processor provides control over many signal parameters, such as: Contrast, Brightness, Color Saturation, Sharpness, R-G-B Levels and Aspect Ratio. Power Supply with locking DC connector is included.

1T-VS-434 Features and Specifications

- PC Inputs/Outputs: Up to WUXGA
- HD Inputs/Outputs: Up to 1080p
- Input: RGBHV, YPbPr, YUV Component
- Output: RGBHV, YPbPr
- Locking DC Power Connector for security
- External Power Adapter: 5VDC@2A
- Size: 25x102x157mm (.98"x4.16"x6.18")
- Weight: 0.73lbs (332g)



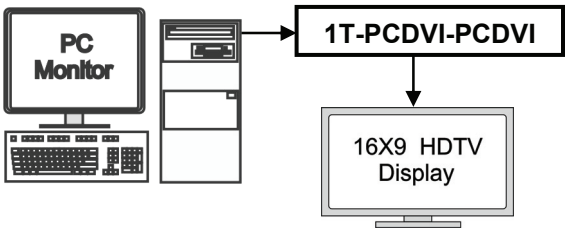
1T-PCDVI-PCDVI PC/HD Cross Converter

1T-PCDVI-PCDVI Video Scaler is a high bandwidth, professional Cross Converter that freely converts between resolutions up to 1080p and WUXGA, analog or digital. It also upconverts 480i or 576i analog component video. Input connectors are DVI, HD15 and 3xRCA. Output connectors are DVI and HD15. An integrated DVI/HDCP compliant receiver is central to the processor along with 3-D motion adaptive de-interlacers.

The 3:2 pull-down, 2:2 pull-down detection recovery and 3-D noise reduction complete the superior video signal processing capability. IR Remote Control included. An Auto Adjust button allows for the automatic size and position of the image.

1T-PCDVI-PCDVI Features and Specs

- PC Input/Output: Up to WUXGA
- HD Input/Output: Up to 1080p
- DVI Input/Output is HDCP Compliant
- RGB, YPbPr and YUV Inputs Supported
- Digital-to-Analog and Analog-to-Digital
- 3-D Motion Adaptive De-Interlace
- 3-D Noise Reduction
- 3:2 Pull-Down with 2:2 Pull-Down Recovery
- Front Panel or Infrared Remote Control
- Locking Power Adapter: 5VDC@2A
- Size: 25.5x180x125mm (1x7x4.9")
- Weight: 1.06 lbs (480g)



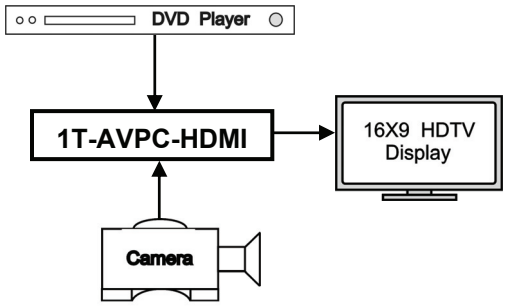
1T-AVPC-HDMI Video/Audio to HDMI Scaler

1T-AVPC-HDMI Video Scaler converts DVI and Analog inputs to the HDMI format, providing output resolutions up to 1080p and WUXGA. Analog RGB inputs up to WUXGA are accepted along with YPbPr up to 1080p. It also accepts a 480i or 576i YUV input. The digital inputs can be HDMI or DVI-D signals up to 165 MHz with RGB up to UXGA. An integrated DVI/HDMI HDCP compliant receiver is central to the processor along with 3-D motion adaptive de-interlacers. The 3:2 pull-down, 2:2 pull-down detection/recovery and 3-D noise reduction complete the superior video signal processing capability.

Audio processing is accomplished by embedding either Analog Stereo Audio (R&L), PC Stereo Audio (R&L) or an auxiliary Analog Stereo Audio (R&L) input into the HDMI output. IR Remote Control included. An Auto Adjust button allows for the automatic size and position of the image.

1T-AVPC-HDMI Features and Specs

- HDMI Outputs up to 1080p and WUXGA
- Digital & Analog Inputs up to 1080p and WUXGA
- RGBHV, YPbPr and YUV Inputs Supported
- Integration of Analog Audio into HDMI
- 3-D Motion Adaptive De-Interlace
- 3-D Noise Reduction
- 3:2 Pull-Down with 2:2 Pull-Down Recovery
- Front Panel or Infrared Remote Control
- Locking Power Adapter: 5VDC@2A
- Size: 25.5x180x125mm (1x7x4.9")
- Weight: 1 lb (450g)



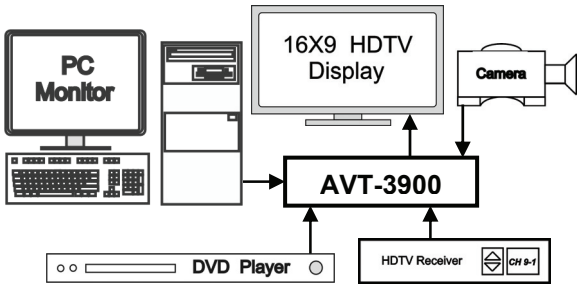
AVT-3900 HDMI Video Scaler

AVT-3900 HDMI Scaler accepts inputs of HDMI and DVI up to 1080p, PC up to WUXGA@60Hz, HD Component signals (YPbPr/YUV, 480i up to 1080p), S-Video and Composite Video. It scales these signals to provide a fully compliant HDMI output up to 1080p resolution. The scaling engine processes the selected input signal and delivers an HDMI V1.2 output. The unit is HDCP compliant. Standard features include 3-D Motion Adaptive De-interlacing, 3:2 Pull-Down and 3-D Noise Reduction.

Audio inputs are provided for all sources and follow the video input selected. The HDMI output has embedded audio. An additional SPDIF audio output is provided for ease of connection to existing audio systems. Both digital and analog audio processing is supported and audio delays of up to 150ms can be introduced to insure lip sync.

AVT-3900 Features and Specifications

- Output: HDMI up to 1080p
- Inputs: YPbPr/YUV, SV, CV, PC, HDMI/DVI
- Audio In: One stereo audio per video
- Audio Out: Embedded in HDMI or SPDIF
- Audio Delay Encoding System
- 3-D Motion Adaptive De-Interlace
- Noise Reduction
- 3:2 Pull-Down w/2:2 Pull-Down Recovery
- Infrared Remote Control Included
- Power Adapter: 5VDC@2A
- Size: 1.7”Hx8.5”Wx6.05”D (47x215x154mm)
- Weight: 2.2 lbs (1kg)



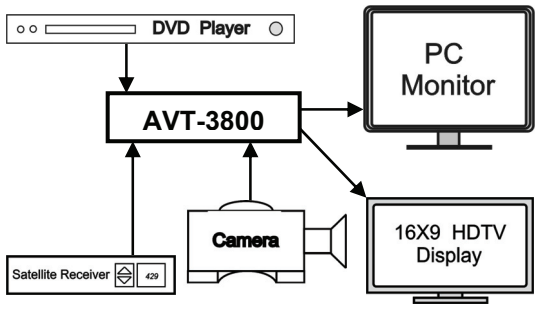
AVT-3800 Video to SXGA & HDTV Scaler

AVT-3800 imageMAX PLUS is a high performance Video Scaler used to up convert standard analog video for viewing on virtually any HDTV, Plasma, LCD or PC Display. By means of advanced frame buffer technology, Digital Noise Reduction and line doubling, imageMAX can transform your existing standard video from a DVD Player, VCR, camcorder, video game, satellite receiver or other video source into a high resolution picture for viewing on virtually any display device with an RGBHV (HD-15) or YPbPr (3 RCA) input.

It will also work with 16X9 widescreen format, HDTV-ready TV Sets, resulting in dramatically improved video image quality. Video inputs can either be Composite, S-Video or YUV Component Video. The output can be PC format signals up to SXGA or HDTV resolutions up to 1080i.

AVT-3800 Features and Specifications

- HDTV Output: YPbPr 480p, 720p, 1080i
- PC Output: RGBHV 1280x1024
- Inputs: Composite, S-Video, YUV
- Anti-Flicker Technology & 3D Comb Filtering
- 4:3 and 16:9 Aspect Ratio Outputs
- 3:2 Pull Down
- IR Remote Control & On Screen Display
- Adjustable Brightness, Contrast, Color, Tint
- Power Adapter: 5VDC@2A
- Size: 1.75"Hx8.1"Wx6.2"D (45x206x157mm)
- Weight: 2.4lbs (1.1kg)



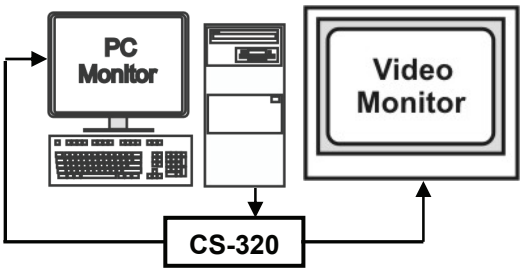
CS-320 PC to Video Down Converter

CS-320 handles both PC and Mac computer signals and can be controlled from the front panel or via an Infrared Remote Unit. Its Zoom feature allows you to enlarge a quarter of the computer screen to fill the entire video screen and the Pan feature allows you to move around to any area you choose.

The advanced 4-Line Digital Flicker Elimination circuitry provides crisp, clear images up to 1024x768, without line dropping, at any vertical refresh rate. It is capable of handling even higher resolutions. Video outputs are switchable between NTSC and PAL and are simultaneously provided in Composite, S-Video and RGBS formats, as well as a computer monitor loop-thru. Power Supply is included.

CS-320 Features and Specifications

- Outputs: Composite, S-Video, RGBS
- Input: PC or Mac up to 2048x2048
- Automatic Input Resolution detection
- AutoSet - Automatic picture sizing
- Underscan/Overscan
- NTSC/PAL Video Output Switch Selectable
- No line dropping up to 1024x768
- Optional Infrared Remote Control
- Power Adapter: 12VDC@1A
- Size: 1.25”Hx7.25”Wx4”D (32x185x102mm)
- Weight: 0.63 lbs (280g)



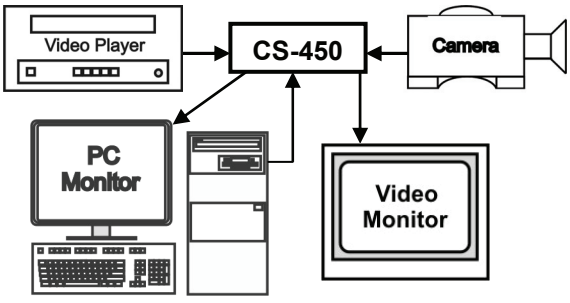
CS-450 PC to Video Down Converter w/Overlay

CS-450 Eclipse is a high quality computer-to-video scan converter with genlock and overlay. Like all CORIO® products, the CS-450 has our exclusive AutoSet feature. The advanced 4-Line Digital Flicker Elimination circuitry provides crisp, clear images up to 1024x768, without line dropping, at any vertical refresh rate. Video outputs are switchable between PAL and NTSC and are simultaneously provided in Composite, S-Video and RGBS formats, as well as a computer monitor loop-thru.

The built-in Keyer allows external Composite or S-Video to by overlayed onto the computer image. The On-Screen Display provides ease of setup and status monitoring. The unit is housed in a plastic case and provides RCA connectors for Composite Video and an HD-15 for the RGBS output. Power Supply is included.

CS-450 Features and Specifications

- Outputs: Composite, S-Video, RGBS
- Input: PC or Mac up to 2048x2048
- Automatic Input Resolution Detection
- AutoSet - Automatic picture sizing
- Underscan/Overscan
- NTSC/PAL Video Output Switch Selectable
- Genlock and Overlay Feature
- On Screen Display (OSD), Optional IR Control
- RS-232 Control
- Power Adapter: 12VDC@1A
- Size: 1.25"Hx7.3W"x4"D (32x185x102mm)
- Weight: 0.63 lbs (280g)



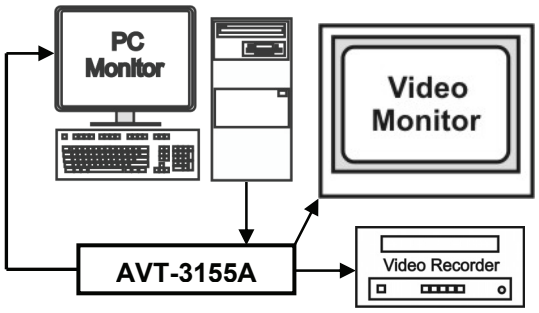
AVT-3155A PC to Video Down Converter

AVT-3155A is an ultra compact scan converter to transform PC or Mac computer signals to standard analog video. Its settings are controlled via top panel push-buttons. The small size of the AVT-3155 makes it ideal for use with laptops or desktop computers and it handles resolutions up to 1600x1200 at 60Hz vertical refresh rate.

Video outputs are simultaneously provided in Composite and S-Video formats, selectable as either NTSC or PAL. You can convert anything on your computer screen for viewing on an analog TV set or recording on an analog VCR. The Overscan/Uncerscan switch insures that all of the computer image will be visible on the TV screen. Power Supply is included.

AVT-3155A Features and Specifications

- Input: PC or Mac up to 1600x1200
- Outputs: Composite, S-Video
- Underscan and Overscan Switch
- NTSC/PAL Video Output Switch Selectable
- Power Adapter: 3.3VDC
- Size: 0.9"Hx3.9"Wx2.5"D (24x100x64mm)
- Weight: 0.22 lbs (100g)



AVT-3160 PC to Video Down Converter

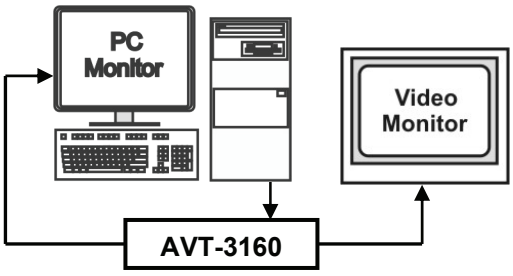
AVT-3160 Scan Converter converts PC and Mac computer signals to standard analog video. Its settings are controlled via front panel push-buttons or IR Remote Control. A Zoom feature allows you to enlarge a portion of the computer screen to fill the entire video screen and a Pan feature allows you to move to any area on the screen.

The unit handles resolutions up to 1024x768 at 60Hz vertical refresh rate and the video outputs are simultaneously provided in Composite, S-Video and RGBS. A computer monitor loop-thru is also available. The AVT-3160 supports both NTSC and PAL video formats via a selector switch. Output Brightness and Sharpness are adjustable. Power Supply is included.

Note - AVT-3160 Not Available in Europe

AVT-3160 Features and Specifications

- Input: PC or Mac 640x480, 800x600, 1024x768
- Outputs: Composite, S-Video, RGBS
- Supports Horizontal Rates 24KHz to 48KHz
- Supports Vertical Rates 50Hz to 100Hz
- Five Line Anti-Flicker Filter
- 24 Bit Signal Processing
- Selectable Underscan, Overscan and Freeze
- Infrared Remote Control Included
- Power Adapter: 6VDC@1A
- Size: 1.45"Hx7.6"Wx5.5"D (37x192x140mm)
- Weight: 3.9 lbs (1.8kg)



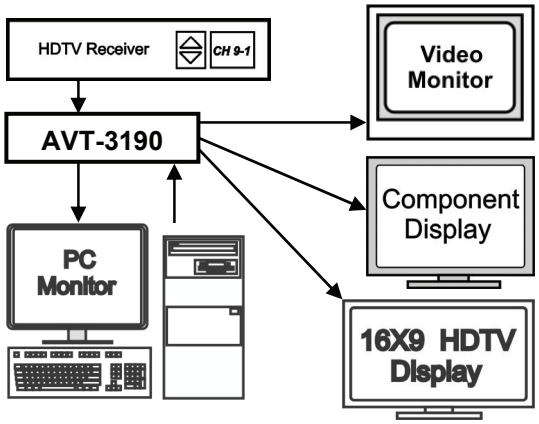
AVT-3190 HDTV/PC Down Converter

AVT-3190 HDTV Down Converter allows you to view HDTV YPbPr Component Video signals on standard NTSC or PAL video monitors or TV Sets. It also converts standard PC signals to analog video. Outputs are simultaneously provided in Composite, S-Video and YUV formats, as well as PC or HDTV Pass-thru.

The aspect ratio can be switched between wide screen and standard display. The AVT-3190 can handle any HD signal up to 1080i and convert it to standard analog video. It can also handle computer resolutions up to UXGA (1600 x 1200 at 60Hz) vertical refresh rate. The unit comes with an IR remote control. Power Supply is included.

AVT-3190 Features and Specifications

- HD Input: YPbPr up to 1080i
- PC Input: RGBHV up to 1600x1200
- Outputs: Composite, S-Video, YUV Component
- 4:3 and 16:9 Aspect Ratio Outputs
- Infrared Remote Control Included
- Power Adapter: 5VDC@2A
- Size: 2"Hx8"Wx6"D (50.8x203.2x152.4mm)
- Weight: 2.2 lbs (1kg)



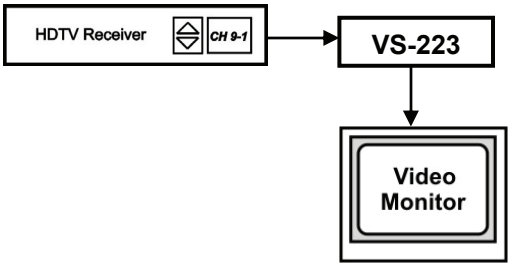
VS-223 YPbPr Component Down Converter

VS-223 Down Converter is designed to convert a variety of analog HDTV images, ranging from 480p to 1080p resolution, to interlaced NTSC or PAL Video outputs. It provides both Composite Video and S-Video output signals and also incorporates a YPbPr bypass feature which allows the user to choose either analog component HDTV images or standard definition images as desired. The unit is ideal for situations where the available monitors are capable of displaying only Composite Video or S-Video signals but the source material is available only in component HDTV formats.

Selection of over scanned or under scanned video output is possible and the user may select either the NTSC or PAL video standard. Power Supply with locking DC connector is provided.

VS-223 Features and Specifications

- Input: YPbPr via 3 RCA connectors
- Outputs: Composite, S-Video, YPbPr Bypass
- Support HDTV inputs up to 1080p
- Supports both NTSC/PAL Television Standards
- Provision for Image Overscan and Underscan
- Easy to install and simple to operate
- Small, palm size footprint
- Power Adapter: 5VDC@2A
- Size: 0.98"Hx4.1"Wx4.0"D (25x105x102mm)
- Weight: 0.5lbs (230g)

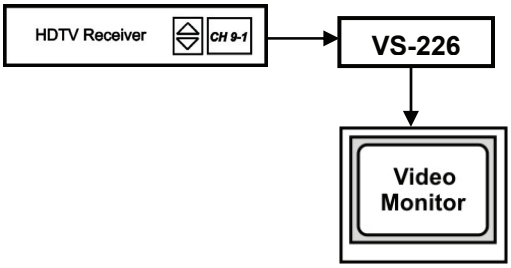


VS-226 HDMI Down Converter

VS-226 HDMI to CV/SV/Stereo Down Converter converts digital HDMI signals (or DVI with S/PDIF coaxial audio) to NTSC or PAL analog video signals and also provides a L/R stereo audio output. It also provides a re-clocked HDMI signal which delivers a jitter free bypassed output of the original HDMI signal. In addition, either a bitstream derived HDMI audio signal or a coaxial input signal is processed and provided to an external audio amplifier via a coaxial S/PDIF digital audio connector. The unit provides a convenient way for the user to watch a high definition television program while also recording it in standard resolution. The VS-226 automatically detects the HDTV signal's resolution and is fully compliant with HDMI v1.2, DVI v1.0 and HDCP v1.1 specifications. Power Supply with locking DC connector is provided.

VS-226 Features and Specifications

- Input: HDMI (or DVI) up to 1080p
- Outputs: Composite, S-Video, Stereo Audio
- Jitter corrected, Re-Clocked HDMI Bypass Out
- NTSC or PAL Output
- Breaks out HDMI Embedded Audio
- S/PDIF and Analog L/R Stereo Audio Out
- HDMI 1.2, HDCP1.1 and DVI1.0 compliant
- Power Adapter: 5VDC@2A
- Size: 2"Hx8"Wx6"D (50.8x203.2x152.4mm)
- Weight: 2.2 lbs (1kg)



RESOLUTION TABLE

Name	Resolution	Aspect Ratio
QUXGA	3200 x 2400	4:3
QSXGA+	2800 x 2100	4:3
QSXGA	2560 x 2048	5:4
QXGA	2048 x 1536	4:3
WUXGA	1920 x 1200	16:10
WSXGA+	1680 x 1050	16:10
UXGA	1600 x 1200	4:3
SXGA+	1400 x 1050	4:3
SXGA	1280 x 1024	5:4
QVGA	1280 x 960	4:3
WXGA	1280 x 800	16:10

Name	Resolution	Aspect Ratio
XGA	1024 x 768	4:3
SVGA	800 x 600	4:3
VGA	640 x 480	4:3
1080i	1920 x 1080	16:9
1080p	1920 x 1080	16:9
720p	1280 x 720	16:9
EDTV	852 x 480	16:9
576i	720 x 576	4:3
576p	720 x 576	4:3
480i	720 x 480	4:3
480p	720 x 480	4:3

RoHS STATEMENT OF COMPLIANCE - Since 1 July 2006, the European Union (EU) directive 2002/95/EC, known as the "Restrictions on the use of Hazardous Substances in electronic equipment" or RoHS for short, has banned the sale of new electrical and electronic equipment containing more than agreed levels of lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) flame retardants. TV One has invested heavily in modern state of the art manufacturing facilities to meet and exceed the requirements of RoHS and all TV One and One-task products comply with the RoHS Directive.

ISO 9001:2000 CERTIFICATION - TV One Ltd is ISO 9001:2000 certified for the Design, Manufacture, Test and Distribution of Audio Video products. TV One's ISO 9001:2000 certificate number is GB2002138.ISO (International Organization for Standardization) is the source of the ISO 9000 and ISO 14000 families of quality and environmental management standards and it has also developed some 15,000 International Standards for business, government and society. These strict guidelines that TV One Ltd adhere to, insure that the processes that influence product and service quality are of the highest possible standard.

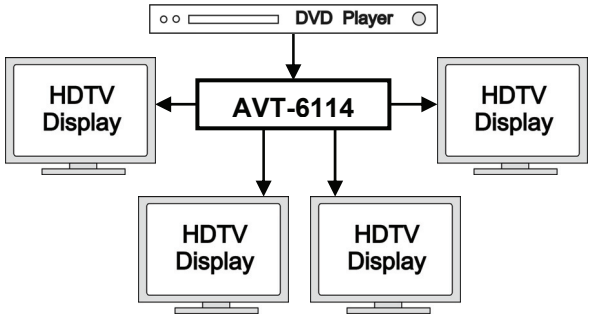
AVT-6114 HDMI Signal Splitter

AVT-6114 HDMI Version 1.3 Signal Splitter provides a way to distribute up to four HDMI or PC signals to four displays or other HDMI compliant devices. This version v1.3 HDMI signal splitter supports all standard High Definition Television formats, PC formats from XGA through UXGA as well as providing transport of embedded HD-Audio, including Dolby® TrueHD and DTS-HD.

The splitter is plug-and-play and no additional control is needed. If both the input and the outputs are HDMI compliant, the Splitter will function as soon as power is supplied. The unit has a maximum cable run of 20m (65 ft.) including the combined length of the input and output cables. Power Supply is included.

AVT-6114 Features and Specifications

- 1 HDMI Input x 4 HDMI Outputs
- Supports HDTV up to 1080p
- Supports SDTV of 480i and 576i
- Supports PC Inputs (XGA through UXGA)
- Supports combined I/O cable runs to 20m
- Compliant with HDMI v1.3, HDCP v1.1
- Power Adapter: 5VDC@2A
- Size: 1”Hx5.6”Wx2.6”D (25x142x66mm)
- Weight 0.48lbs (220g)



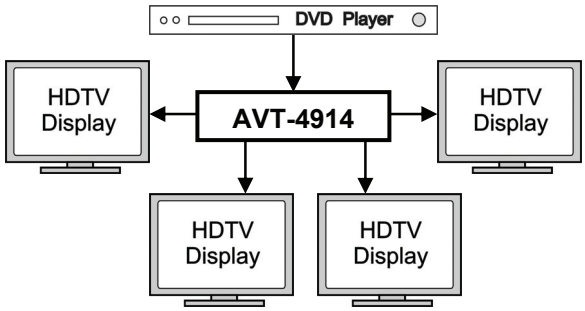
AVT-4914 HDTV Component Signal Splitter

AVT-4914 Signal Splitter provides four identical HDTV YPbPr Component Video and Stereo Audio outputs from a single input. It also works with YUV Interlaced Component Video. The input signal is amplified and distributed via its’ internal circuitry to insure that all four video and audio outputs are of identical quality to the input signal.

A Component Video and Stereo Audio source, such as a DVD Player, satellite receiver or set top CATV box can now be fed to multiple devices without signal degradation. The AVT-4914 has a video bandwidth of 250MHz making it ideal for distribution of High Definition YPbPr signals for today’s Home Theater applications. Power Supply is included.

AVT-4914 Features and Specifications

- Input: 1x HDTV YPbPr Component Video
- Audio Input: 1x Stereo
- Outputs: 4x HDTV YPbPr Component Video
- Audio Outputs: 4x Stereo
- Amplifies YPbPr or YUV signals equally well
- Video Bandwidth: 250MHz
- Audio Bandwidth: >20KHz
- NTSC and PAL Compatible
- Size: 1.5"Hx6.3"Dx1"W (38x159x305mm)
- Weight: 4.5 lbs (2.05kg)



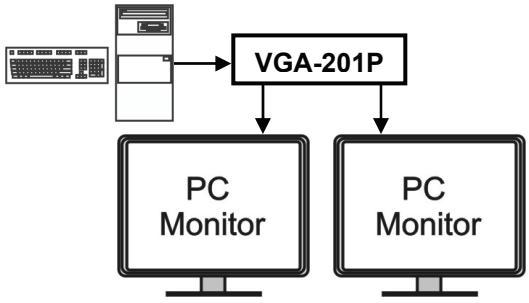
VGA-201P PC Signal Splitter

VGA-201P PC Signal Splitter provides two identical computer outputs from a single input at resolutions up to 1600x1200. The input signal is amplified and distributed via its internal circuitry to insure that both outputs are of identical quality to the input signal.

Perfect for laptops, this small unit, weighing less than 4 ounces, is truly portable because it gets its power from the computer's USB port via a cable assembly that is provided. It's easy and inexpensive to feed two computer monitors from the same PC or Laptop. The unit's 125MHz bandwidth makes it possible to handle most computer resolutions without signal degradation. Input and output connections are via HD-15 Female Connectors.

VGA-201P Features and Specifications

- 1 PC Input x 2 PC Outputs via HD-15
- Supports PC Resolutions up to 1600x1200
- Bandwidth 125 Mhz
- Supports output cables up to 200ft (60m)
- USB cable for power included
- Size: 1”Hx3.5”Wx3.5”D (25x89x89mm)
- Weight: 0.25 lbs (110g)



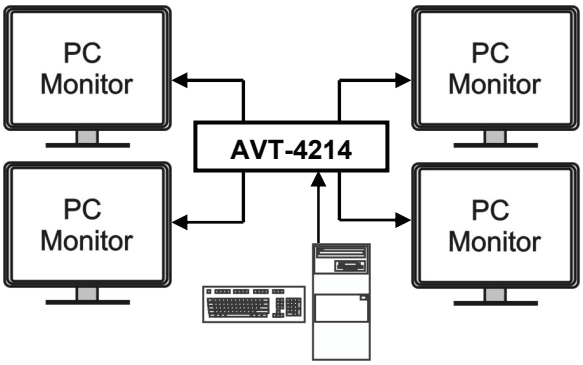
AVT-4214 PC Signal Splitter

AVT-4214 PC Signal Splitter provides four identical computer outputs from a single input at resolutions up to 1600x1200. The input signal is amplified and distributed via its internal circuitry to insure that all four outputs are of identical quality to the input signal.

It's easy and inexpensive to feed four computer monitors over 150ft (45m) from the same computer. The unit's 150MHz bandwidth makes it possible to handle most computer resolutions without signal degradation. Input and output connections are via HD-15 Female Connectors. Power Supply is included.

AVT-4214 Features and Specifications

- 1 PC Input x 4 PC Outputs via HD-15
- Supports Resolutions up to 1600x1200
- Bandwidth 150 Mhz
- Supports output cables up to 150ft (45m)
- PC Input cable included
- Power Adapter: 9VDC
- Size: 1.75”Hx6.2”Wx4.5”D (45x160x115mm)
- Weight: 1lb (450g)



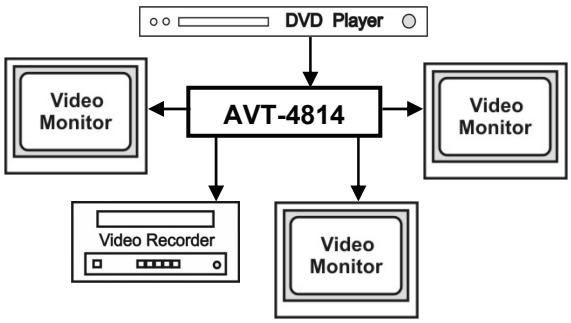
AVT-4814 1x4 S-Video Signal Splitter

AVT-4814 Signal Splitter provides four identical S-Video and Stereo Audio outputs from a single S-Video and Stereo Audio input. The input signal is amplified and distributed via its internal circuitry to insure that all four video and audio outputs are of identical quality to the input signal.

An S-Video and Stereo Audio source, such as a VCR, Camcorder or DVD Player can now be fed to multiple devices, such as a TV Set or VCR, without signal degradation. The AVT-4814 works equally well with NTSC or PAL signals and features more than enough video bandwidth to distribute the signals without degradation. S-Video input and outputs are via standard 4-Pin Mini-DIN connectors and Stereo Audio input and outputs are via RCA connectors. Power Supply is included.

AVT-4814 Features and Specifications

- Input: 1x S-Video, 1x Stereo
- Outputs: 4x S-Video, 4x Stereo
- 4-Pin Mini-Din Video & RCA Audio Connectors
- Video Bandwidth: >8MHz
- Audio Bandwidth: >20KHz
- NTSC and PAL Compatible
- Power Adapter: 12VDC@1A
- Size: 1.7”Hx4.3”Wx3.1”D (43x109x79mm)
- Weight: 1.1 lbs (499g)



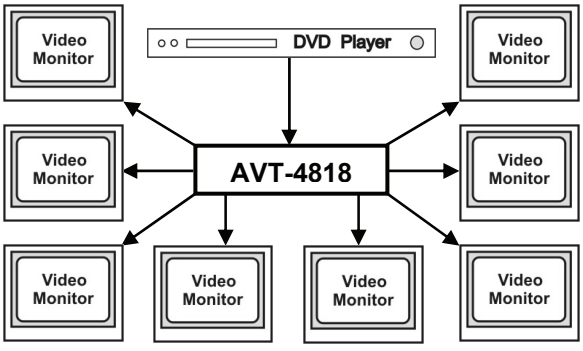
AVT-4818 1x8 S-Video Signal Splitter

AVT-4818 Signal Splitter provides eight identical S-Video Video and Stereo Audio outputs from a single S-Video and Stereo Audio input. The input signal is amplified and distributed via its internal circuitry to insure that all eight video and audio outputs are of identical quality.

An S-Video and Stereo Audio source, such as a VCR, Camcorder or DVD Player can now be fed to multiple devices without signal degradation. The AVT-4818 works equally well with NTSC or PAL signals and features more than enough video bandwidth to distribute the signals without degradation. S-Video input and outputs are via standard 4-Pin Mini-DIN connectors and Stereo Audio input and outputs are via RCA connectors. Power Supply is included.

AVT-4818 Features and Specifications

- Input: 1x S-Video, 1x Stereo
- Outputs: 8x S-Video, 8x Stereo
- 4 pin Mini-Din Video & RCA Audio Connectors
- Video Bandwidth: >8MHz
- Audio Bandwidth: >20KHz
- NTSC and PAL Compatible
- Power Adapter: 12VDC@1A
- Size: 2”Hx9.5”Wx5.5”D (50x240x140mm)
- Weight: 2.3 lbs (1.05kg)



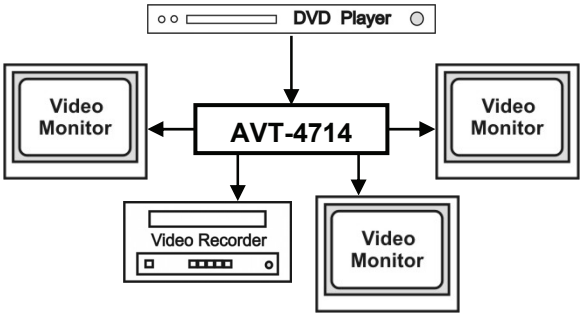
AVT-4714 1x4 Composite Video Signal Splitter

AVT-4714 Signal Splitter provides four identical Composite Video and Stereo Audio outputs from a single Composite Video and Stereo Audio input. The input signal is amplified and distributed via its internal circuitry to insure that all four video and audio outputs are of identical quality.

A Composite Video and Stereo Audio source, such as a VCR, Camcorder or DVD Player can now be fed to multiple devices, such as a TV Set or VCR, without signal degradation. The AVT-4714 works equally well with NTSC or PAL signals and features more than enough video bandwidth to distribute the signals without degradation. Composite Video and Stereo Audio input and outputs are via RCA connectors. Power Supply is included.

AVT-4714 Features and Specifications

- Input: 1x Composite Video, 1x Stereo
- Outputs: 4x Composite Video, 4x Stereo
- RCA Connectors
- Video Bandwidth: >8MHz
- Audio Bandwidth: >20KHz
- NTSC and PAL Compatible
- Power Adapter: 12VDC@1A
- Size: 1.7”Hx4.3”Wx3.1”D (43x109x79mm)
- Weight: 1.1 lbs (499g)



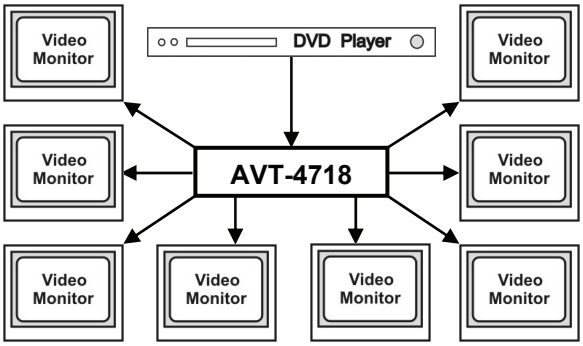
AVT-4718 1x8 Composite Video Signal Splitter

AVT-4718 Signal Splitter provides eight identical Composite Video and Stereo Audio outputs from a single Composite Video and Stereo Audio input. The input signal is amplified and distributed via its internal circuitry to insure that all eight video and audio outputs are of identical quality.

A Composite Video and Stereo Audio source, such as a VCR, Camcorder or DVD Player can now be fed to multiple devices without signal degradation. The AVT-4718 works equally well with NTSC or PAL signals and features more than enough video bandwidth to distribute the signals without degradation. Composite Video and Stereo Audio input and outputs are via RCA connectors. Power Supply is included.

AVT-4718 Features and Specifications

- Input: 1x Composite Video, 1x Stereo
- Outputs: 8x Composite Video, 8x Stereo
- Video Bandwidth: >8MHz
- Audio Bandwidth: >20KHz
- NTSC and PAL Compatible
- Power Adapter: 15VDC
- Size: 2”Hx9.5”Wx5.5”D (50x240x140mm)
- Weight: 2.5 lbs (1.1kg)



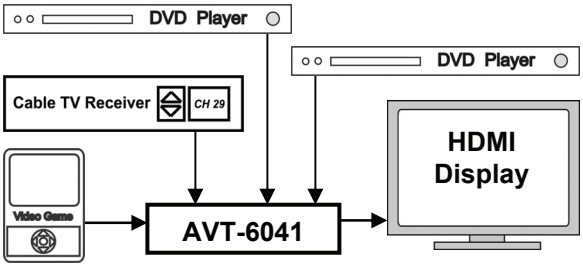
AVT-6041 HDMI v1.3 Routing Switcher

AVT-6041 HDMI Version 1.3 Routing Switcher provides a way to switch between HDMI signals, with or without HDCP copy protection. The AVT-6041 allows the switching of four inputs. It maintains all signal components present within the encoded signal and allow the user to easily select program material without moving cables.

The switcher can be controlled via front panel switches or the included Infrared Remote Control. This version 1.3 HDMI device supports all standard High Definition Television formats, PC formats from 640x480 through 1920x1200 as well as embedded HD-Audio, including Dolby® TrueHD and DTS-HD. A built-in Signal Enhancer provides for long distance cable runs and may be turned off via a front panel switch when not required. Power Supply is included.

AVT-6041 Features and Specifications

- 4x HDMI Inputs x 1 HDMI Output
- Supports HDTV up to 1080p
- Supports PC up to 1920x1200
- Bandwidth 2.25 Gbps
- HDMI 1.3, HDCP 1.1 and DVI 1.0 Compliant
- Supports 10/12 bit Color Depth Display
- Supports Embedded Audio
- Supports Dolby® Digital TrueHD and DTS-HD
- Signal Enhancement enables longer cable runs
- Infrared Remote Control Included
- Power Adapter: 5VDC@2A
- Size: 1.3"Hx8.1"Wx4.3"D (32x206x111mm)
- Weight: 0.56 lbs (250g)



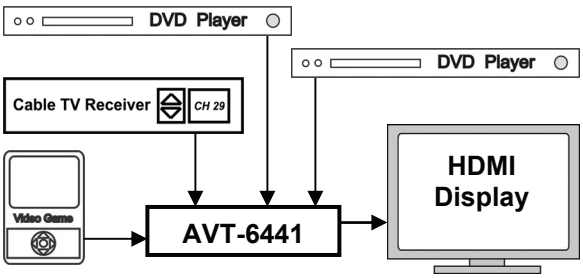
AVT-6441 HDMI v1.4 Routing Switcher

AVT-6441 HDMI v1.4 Routing Switcher is fully compliant with 3D TV. It employs Fast Switching Technology and input selection is via the Infrared Remote Control provided. The unit supports all standard High Definition Television formats, PC formats from 640x480 through 1920x1200 and 36/30/24-bit Color Depth. The unit allows the switching of four inputs while maintaining all signal components present within the encoded signal and allow the user to easily select program material without moving cables.

The switcher incorporates Audio Return Channel (ARC) as well as embedded HD-Audio, including Dolby® TrueHD and DTS-HD. A built-in Signal Enhancer provides for long distance cable runs and may be turned off via a front panel switch when not required. Power Supply is included.

AVT-6441 Features and Specifications

- 4x HDMI Inputs x 1 HDMI Output
- Supports HDTV up to 1080p, PC up to WUXGA
- Fast Input Switching Technology
- Bandwidth 2.25 Gbps
- HDMI 1.4, CEC 1.4, HDCP 1.1, DVI 1.0, 3D TV
- Supports 36/30/24-bit Color Depth Display
- Supports ARC, Dolby TrueHD, DTS-HD Audio
- IR Remote Control
- Power Adapter 5VDC
- Size: 1.3”Hx3.3”Wx3.3”D (34x85x85mm)
- Weight: 3.2 oz (90g)



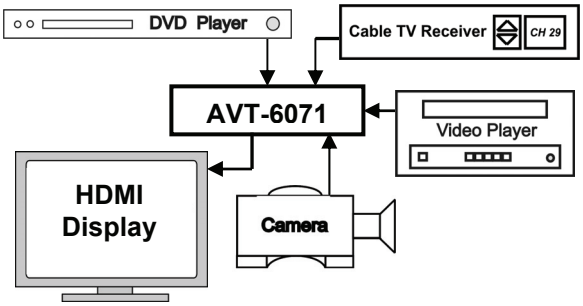
AVT-6071 HDMI Multi-format Switcher

AVT-6071 Multi-format Routing Switcher is a high quality device designed to allow the incorporation of HDMI signals with analog video signals for viewing on HDMI displays. It accommodates three HDMI inputs and a variety of analog video and computer inputs that are up-converted to HDMI for compatibility. The unit is compatible with HDMI v1.3 specifications, a cutting-age technology which includes Deep Color (10-bit, 12-bit) video. Local or IR control.

The AVT-6071 is fully HDCP compliant. It supports a wide range of PC and HDTV resolutions from VGA to SXGA and 480i to 1080p. Advanced features include 3D comb filter and 3D Noise Reduction (DNR) to insure the highest possible quality. A front panel selectable audio delay of 150ms helps solve lip sync problems when mixing analog and HDMI signal. Remote control is via IR or RS-232. Rackmount ears are included. Power Supply is included.

AVT-6071 Features and Specifications

- Switches between HDMI and Analog Signals
- Inputs: 3x HDMI, 1x PC, 2x YPbPr & 2x CV/SV
- Outputs: 1x HDMII
- Audio Inputs for all Analog Video Inputs
- Supports HD up to 1080p, PC up to SXGA
- IR and RS-232 Remote Control Included
- HDMI 1.3 and HDCP 1.1 Compliant
- Supports 10/12 bit Color Depth Displays
- Power Adapter: 5VDC
- Size: 1.7”Hx3.2”Wx5.8”D (44x80x147mm)
- Weight: 3.3 lbs (1.5kg)



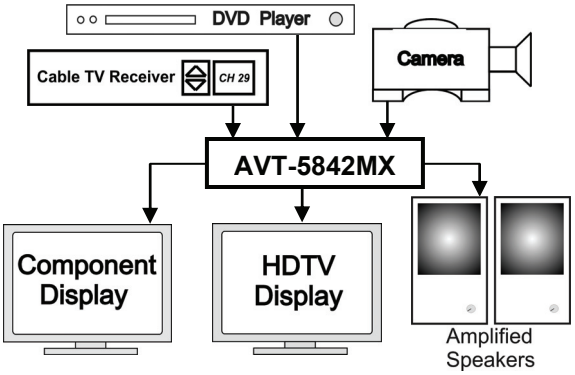
AVT-5842MX Component Video Matrix Router

AVT-5842MX Component Video Matrix Routing Switcher is a 4x Input by 2x Output switcher that can be used for YPbPr Progressive Scan Video or YUV Component Video, plus Stereo Audio. The unit sends the selected input to the two outputs independently, so the outputs can be the same or different signals. Selection can be made by the front panel push buttons or by the IR Remote Control.

Up to four Component Video signals can be connected to two TV Sets, HDTV Displays or other devices that use Component Video signals. The high signal bandwidth insures no loss of video or audio quality and the unit works with Progressive Scan YPbPr 480p, 576p, 720p or 1080i Component Video or Interlaced Scan YUV Component Video. Power Supply is included.

AVT-5842MX Features and Specifications

- Inputs: 4x Component Video, 4x Stereo
- Outputs: 2x Component Video, 2x Stereo
- Video Bandwidth: 100 MHz
- Channel Separation: >50dB
- Noise Reduction: >50dB
- NTSC and PAL compatible
- Infrared Remote Control Included
- Power Adapter: 12VDC
- Size: 1.9”Hx9”Wx5.7”D (48x230x145mm)
- Weight: 2.1 lbs (953g)



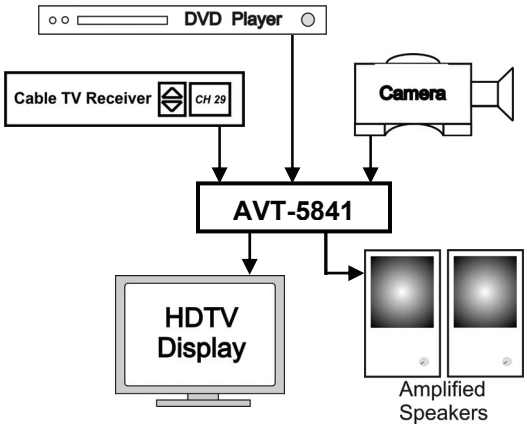
AVT-5841 Component Video Routing Switcher

AVT-5841 YPbPr HDTV Component and Stereo Audio Routing Switcher allows you to connect four YPbPr high definition Component Video sources, plus four stereo audio inputs and select the one you want routed to the output. The audio inputs may be either stereo analog or S/PDIF digital formats.

The AVT-5841 functions in two modes, Manual or via included Infrared Remote Control. In the Manual mode, the front panel push button selects which input is routed to the output. In the IR mode, selection is made by pointing the IR remote at the switcher and selecting the appropriate input signal. The switcher will accept both NTSC or PAL inputs and output the same format signal as is applied to the inputs. Power Supply is included.

AVT-5841 Features and Specifications

- Video Inputs: 4x YPbPr HD Component
- Audio Inputs: 4x Stereo & 4x Coaxial S/PDIF
- Video Output: 1x YPbPr HD Component
- Audio Outputs: 1x Stereo & 1x Coaxial S/PDIF
- NTSC and PAL compatible
- Infrared Remote Control Included
- Size: 1.75”Hx9.4”Wx4.5”D (44x238x114mm)
- Weight: 1.1 lbs (499g)



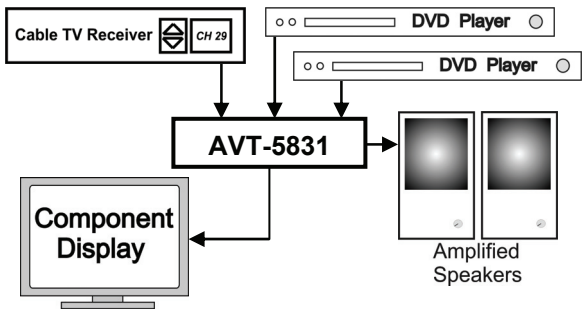
AVT-5831 Component Video Routing Switcher

AVT-5831 Component Video Routing Switcher allows you to connect three YPbPr Component Video and Audio sources and select which of them is routed to the output. Multiple input devices can be connected to a destination device. Input selection can be made via the Front Panel Push Buttons or the Infrared Remote Control.

No signal degradation takes place, so the quality you put in is the same as the quality you get out. In addition to Component Video inputs, the AVT-5831 can also handle Analog Stereo Audio or Toslink Optical Audio for each of the three inputs and route the selected input to the respective output. Power Supply is included. *Note - The unit does not convert audio signals between digital and analog formats.*

AVT-5831 Features and Specifications

- Inputs: 3x Component Video
- Audio Inputs: 3x Stereo including Optical Digital
- Outputs: 1x Component
- Audio Outputs: 1x Stereo and 1x Optical Digital
- Video Bandwidth: 100MHz
- Video S/N: >50dB
- Optical Digital I/O via Toslink connector
- NTSC and PAL compatible
- Infrared Remote Control Included
- Size: 1.75”Hx9.4”Wx4.5”D (44x238x114mm)
- Weight: 2.1 lbs (953g)



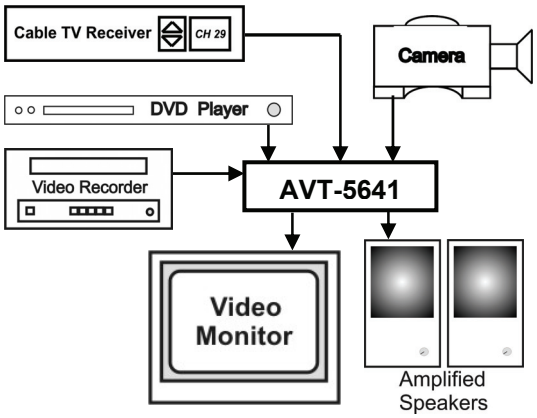
AVT-5641 Composite & S-Video Routing Switcher

AVT-5641 S-Video, Composite Video and Stereo Audio Routing Switcher allows you to connect four S-Video or Composite Video sources, plus four stereo audio inputs and select which of them is routed to the output. The award winning circuit employed in the unit insures that no signal degradation takes place, meaning the quality you put in is the same as the quality you get out.

The unit functions in two modes, Manual or via included Infrared Controller. In the Manual mode, the front panel push button selects which input is routed to the output. In the IR mode, selection is made by pointing the IR remote at the switcher and selecting the appropriate input signal. Power Supply is included. *Note - The unit does not transcode video signals.*

AVT-5641 Features and Specifications

- Video Inputs: 4x Composite or 4x S-Video
- Audio Inputs: 4x Stereo
- Video Outputs: 1x Composite and 1x S-Video
- Audio Output: 1x Stereo
- Channel Separation: >50dB
- NTSC and PAL compatible
- Infrared Remote Control Included
- Size: 1.9"Hx 9"Wx5.7"D (48x230x145mm)
- Weight: 1.1 lbs (499g)



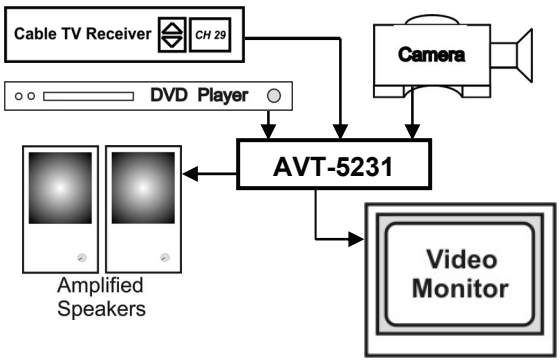
AVT-5231 Composite & S-Video Routing Switcher

AVT-5231 Multi-format Routing Switcher allows you to connect three Video and Audio sources and select which of them is routed to the output. Multiple input devices can be connected to a destination device without moving cables around. Input selection can be made via the Front Panel Push Buttons or the Infrared Remote Control. No signal degradation takes place, so the quality you put in is the same as the quality you get out.

The unit is very flexible, accommodating either Composite or S-Video for each of the three video inputs and Analog Stereo or Digital Optical Audio for each of the three audio inputs, routing the selected input to the respective output. Power Supply is included. *Note - The unit does not transcode video or audio signals.*

AVT-5231 Features and Specifications

- Inputs: 3x CV or S-Video
- Audio Inputs: 3x Stereo including Optical Digital
- Outputs: 1x CV or 1x S-Video
- Audio Outputs: 1x Stereo and 1x Optical Digital
- Video Bandwidth: 10 MHz, Video S/N: >50dB
- Optical Digital I/O via Toslink connector
- NTSC and PAL compatible
- Infrared Remote Control Included
- Size: 1.75”Hx9.4”Wx4.5”D (44x238x114mm)
- Weight: 2.1 lbs (953g)



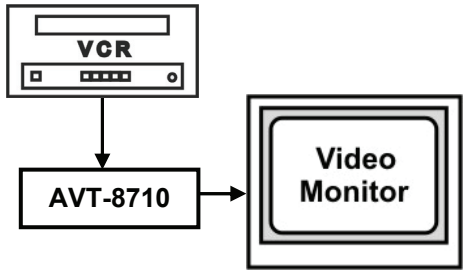
AVT-8710 Multi-Standard Time Base Corrector

AVT-8710 TBC is a compact, multi-standard Time Base Corrector that accommodates most NTSC, PAL and SECAM video signal standards. It eliminates picture jitter and time base errors from videotape playback and insures a stable on-screen image through the use of dual-field full-frame reconstruction. An integral Processing Amplifier allows the adjustment of Brightness, Contrast, Color Saturation, Hue and Sharpness.

A Digital Comb Filter provides superior video signal decoding and the AGC (Automatic Gain Control) insures a proper one volt output signal from an input signal range of 0.5 to 2.0 volts. A built-in Color Bar Generator sends out a test pattern when there is no video input. The unit has both Composite Video and S-Video Inputs and Outputs. Power Supply is included.

AVT-8710 Features and Specifications

- Inputs: 1x Composite, 1x S-Video
- Outputs: 1x Composite, 1x S-Video
- NTSC, PAL-B, D, G, I, K, M, N & SECAM
- Integral Processing Amplifier
- Full Frame, Dual Field Signal Reconstruction
- Built In Color Bar Generator
- Automatic Video Gain Control (Each Channel)
- Size: 1.3”Hx3.5”Wx5.7”D (33x90x145mm)
- Weight: 0.44 lbs (200g)



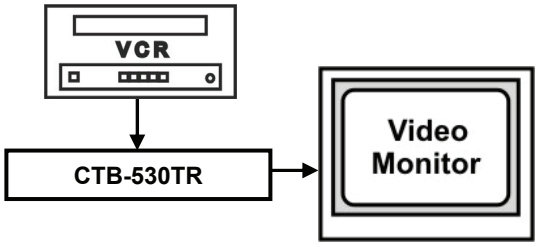
CTB-530TR Time Base Corrector

CTB-530TR Time Base Corrector is a high performance device to correct time base errors in videotape playback or stabilize most video signals. The unit’s dual inputs, with front panel switch selection, provide added flexibility. The device handles NTSC, PAL-B, D, G, I, K, M, N & SECAM.

Composite and S-Video Inputs and Outputs are provided plus a YUV output is also available. Each input has a stereo audio connection and a full capability Processing Amplifier provides control of the video parameters. The Genlock feature enables the incoming video signal to be synchronized to an external video source. US, UK or Euro Power Supply is included.

CTB-530TR Features and Specifications

- Inputs: 2x CV and 2x S-Video
- Outputs: 1x CV, 1x S-Video, 1x YUV
- I/O: NTSC, PAL-B, D, G, I, K, M, N & SECAM
- Integral Processing Amplifier
- 8 Bit Sampling: Each Channel
- Sample MHz: Y-13.5, R-Y=6.75, B-Y=6.75
- Genlock via Composite Video Loop-thru
- Audio I/O: Unbalanced via RCA connectors
- Size: 1.75”Hx19”Wx9.5”D (44x482x242mm)
- Weight: 4.4 lbs (2kg)



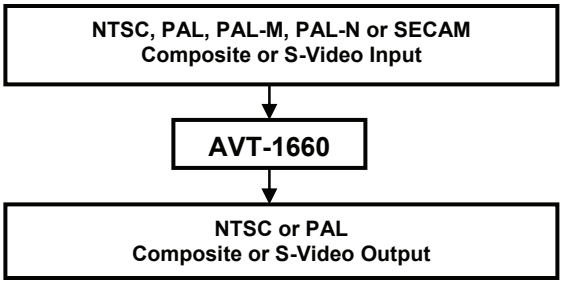
AVT-1660 Standards Converter

AVT-1660 Digital Standards Converter allows conversion between the various worldwide television standards. The input television standard is automatically detected and can be NTSC 3.58, NTSC 4.43, PAL, PAL-M, PAL-N or SECAM. The output standard can be selected as either NTSC or PAL standard.

The AVT-1660 provides inputs and outputs for Composite Video and S-Video signals. This high quality device converts between 50 and 60 Field Rates and between 525 and 625 Line Rates. It features a built in Color Bar Generator for use as a reference test signal. The output signal is highly stable and can be used for recording on a VCR as well as viewing on a video monitor. Power Supply is included.

AVT-1660 Features and Specifications

- Inputs: 1x Composite or 1x S-Video
- Outputs: 1x Composite or 1x S-Video
- Automatic Input Standard Detection
- Input Standards: NTSC, PAL, SECAM
- Output Standards: NTSC 3.58, PAL
- Digital Code: R=8 bits, G=8 bits, B=8 bits
- Line Conversion: 525 to 625, 625 to 525
- Field Conversion: 60 to 50, 50 to 60
- Size: 1.8"Hx9.3"Wx5.1"D (45x236x130mm)
- Weight: 1.1 lbs (499g)



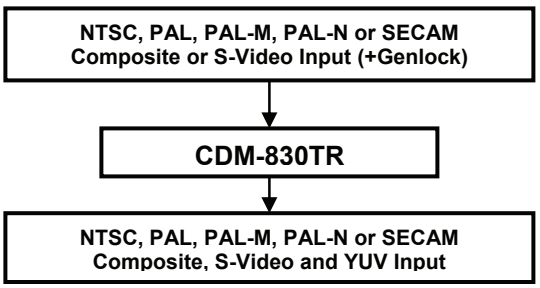
CDM-830TR Standards Converter

CDM-830TR Standards Converter provides broadcast quality conversion between numerous worldwide NTSC, PAL and SECAM broadcast television standards. The integral TBC with Synchronization allows the unit to be genlocked to a Composite Video source. Digital Comb Filtering is used in the decoding process. Advanced Motion Compensation is provided for smoother conversion.

Automatic gain circuitry insures that the proper video output level of 1V p-p is maintained. Brightness, Contrast, Color Saturation and Hue plus Horizontal and Vertical Phase adjustments are also provided. Stereo Inputs and Outputs are provided for convenience. Power Supply is included.

CDM-830TR Features and Specifications

- Inputs: 2x Composite, 2x S-Video
- Outputs: 1x Composite, 1x S-Video, 1x YUV
- Genlock Input: Composite Video Loop-thru
- Automatic Standard Detection and AGC
- I/O Standards: NTSC, PAL-B, M, N & SECAM
- Digital Code: R=8 bits, G=8 bits, B=8 bits
- Line Conversion: 525 to 625, 625 to 525
- Field Conversion: 60 to 50, 50 to 60
- Integral, Full Time TBC/Frame Sync
- Size: 1.75”Hx19”Wx9.5”D (44x482x242mm)
- Weight: 4.4 lbs (2kg)


NTSC, PAL, PAL-M, PAL-N or SECAM
Composite or S-Video Input (+Genlock)
CDM-830TR
NTSC, PAL, PAL-M, PAL-N or SECAM
Composite, S-Video and YUV Input

LIMITED WARRANTY – With the exceptions noted in the next paragraph, AV Toolbox warrants the original purchaser that the equipment it manufactures or sells will be free from defects in materials and workmanship for a period of one year from the date of purchase. Should this product, in AV Toolbox's opinion, prove defective within this warranty period, AV Toolbox, at its option, will repair or replace this product without charge. Any defective parts replaced become the property of AV Toolbox. This warranty does not apply to those products which have been damaged due to accident, unauthorized alterations, improper repair, modifications, inadequate maintenance and care, or use in any manner for which the product was not originally intended.

Items integrated into AV Toolbox products that are made by other manufacturers, notably computer hard drives and liquid crystal display panels, are limited to the term of the warranty offered by the respective manufacturers. Such specific warranties are available upon request to AV Toolbox.

If repairs are necessary under this warranty policy, the original purchaser must obtain a Return Authorization Number from AV Toolbox and return the product to a location designated by AV Toolbox, freight prepaid. After repairs are complete, the product will be returned, freight prepaid.

LIMITATIONS - All products sold are "as is" and the above Limited Warranty is in lieu of all other warranties for this product, expressed or implied, and is strictly limited to one year from the date of purchase. AV Toolbox assumes no liability to distributors, resellers or end-users or any third parties for any loss of use, revenue or profit.

AV Toolbox makes no other representation of warranty as to fitness for the purpose or merchantability or otherwise in respect of any of the products sold. The liability of AV Toolbox with respect to any defective products will be limited to the repair or replacement of such products. In no event shall AV Toolbox be responsible or liable for any damage arising from the use of such defective products whether such damages be direct, indirect, consequential or otherwise, and whether such damages are incurred by the reseller, end-user or any third party.

PRODUCT RETURN POLICY – AV Toolbox strives for total customer satisfaction and will provide the best technical support available in the industry. We also understand that occasionally a customer may wish to return a product because it does not function in the manner desired, even though it is functioning according to specification. If the item has been purchased within 30 days and returned in original condition, we will either issue full credit for the original product to be used against the purchase of another product or refund the purchase price excluding shipping charges. If the item does not arrive to us in original condition, it will be returned to the customer without credit or refund. To return a product, contact our sales support staff for a Return Authorization number. No products will be accepted without a valid Return Authorization number.

GLOSSARY OF TERMS

3G-SDI – a Serial Digital Interface used for 1080p50/59.94/60 video signals running at 2.97GHz.
4:4:4 - means that the three component signals (luminance Y and the two difference signals U and V, also known as Pb and Pr) are sampled at the same rate as each other.
4:2:2 - means that the three component signals (are sampled differently, with U and V sampled at half the rate of the Y signal.
4:1:1 - means that the three component signals are sampled differently, with U and V sampled at a quarter the rate of the Y signal.
AES3-id - An AES Audio subset for broadcast applications and long distance runs using a 1v peak-peak signal over an unbalanced coaxial cable.
AES3 Audio - AES3 (Audio Engineering Society) is the name of a digital audio transfer standard, carrying a stereo signal.
Alpha Channel - An extra video layer channel sometimes used in the keying process.
Analog - A system whereby brightness, loudness or color is represented by a varying voltage with no limits to resolution.
Ancillary Data - Non-video content within an SDI signal used for embedded audio, closed captions, etc.
Artifacts - Spurious bits of unwanted information resulting from analog to digital conversion, or from digital manipulation and compression.
Aspect Ratio - The width-to-height ratio of an image, usually expressed with integer values.
ATSC - Advanced Television Systems Committee, an over-the-air broadcast system for digital television in the US and Canada.
Audio Breakaway - The ability to separate audio signals for switching independently of video.
Audio Follow Video - A term used when audio is tied to a video signal and then switched together.
AutoSet - TV One's proprietary technology that automatically sizes and positions the computer image to fit exactly on the display.
AV, A/V - Audio Visual or Audio Video.
Balanced Audio - A method of interconnecting audio equipment using impedance-balanced lines, usually via a twisted-pair cable.
Bandwidth - A measure of the width of a range of frequencies a device will pass, measured in Hertz: or a rate of data transfer, measured in samples per second.
Black & burst - An analog composite video signal with no active video information but with a color sub-carrier present, often used to genlock signals.
Black Level - the DC voltage or IRE level of the video signal that corresponds to a black picture.

GLOSSARY OF TERMS - Continued

BNC Connector - A twist and lock type of connector commonly used for coaxial cable.
Cat.5, Cat.5E, Cat.6 - A twisted pair cable type designed for high signal integrity: See also UTP
Chroma Key - A technique for mixing two images together, in which a color from one image is removed (or made transparent), revealing another image behind it.
Chrominance Channel - The element of a video signal containing the color information.
Closed Captioning - A means of transporting hidden text information within the video signal.
Coaxial Audio - Digital audio transmission that uses an electrical cable consisting of an inner conductor and outer screen.
Color Subcarrier - The color reference signal that is part of an analog composite video signal.
Communications Protocol - The set of standard rules for data transmission.
Comb Filter - A sophisticated filtering method used in decoding a composite video signal to separate its Luminance and Chrominance components.
Component Video (YUV, YPbPr) – An analog video signal in its component form with Luminance and Color signals separated.
Composite Video - An all in-one video signal comprised of the luma (black and white), chroma (color), blanking pulses, sync pulses, and color burst
CORIO®, CORIO®2 - TV One's proprietary engineering technology
Cross Conversion - A method of scaling between different resolutions, i.e. XGA to WUXGA.
DA (Distribution Amplifier) - A device that provides multiple (and identical) outputs from a single input.
DARS - Digital Audio Reference Signal, used to synchronize audio to a common reference.
db (Decibel) - A logarithmic unit of measure for expressing signal level.
Desktop - A size reference of products meaning they are small enough to fit on a desk top.
De-interlacing - Converting an interlaced signal (with separate odd and even fields) to progressive scan signal.
Delay - An expression of the different arrival time of signal components transmitted together.
Differential Gain and Phase - Measures of non-linearity in video signals, usually in relation to a composite video signal.
Digital - A system of data or image values in the form of discrete, non-continuous codes, such as binary.
DLP - Digital Light Processing, a technology used in light projection.
Down Conversion - The process of decreasing the resolution of an image.
Dual Channel - Two processing engines that allow two sources to be processed within one unit.
Dual Link DVI - A method of combining 2 DVI links to transmit double the amount of data for supporting higher resolutions.
Dual Link HD-SDI - SMPTE 424M standard (2.970Gbps) capable of 1080p, by combining 2 HD-SDI links.
DV (Digital Video) - A compressed video format popular with camcorders, also called IEEE1394.
DVI - Digital Video Interface, a standard designed to transmit a digital signal of four twisted pairs of wire (R, G, B and Clock) to transmit 24 bits per pixel.
DVI-A - Digital Video Interface analog connection, a DVI standard containing only analog information
DVI-D - Digital Video Interface digital connection, a DVI standard containing only digital information
DVI-I - Digital Video Interface integrated connection, a DVI standard containing both analog and digital information
Edge-blending - A method used to create brighter, wider, taller or larger displays using multiple video/data projectors to display a single image.
Embedded Audio - Audio enclosed within the video stream, primarily in HDMI and SDI.
EQ (Equalization) - A method of compensating for high frequency loss in long cable runs.
Firmware - Digital program / system data that is embedded in a hardware device.
Format Conversion (Transcoding) - A method of converting one signal type to another without increasing or decreasing the image resolution.
Genlock - A technique of synchronizing separate video sources together.
GHz - GigaHertz, a unit for frequency measurement; 1GHz=1,000,000,000Hz.
Gbps - Gigabits per second, a unit of data transfer rate; 1Gbps=1,000,000,000 bits per second.
HD, High Definition - Video system of higher resolution than standard definition video, most commonly at display resolutions of 720p, 1080i or 1080p
HD-SDI - High Definition Serial Digital Interface, a high definition digital video interface used for broadcast-grade video - at 1.485Gbps.
HDMI - High Definition Multimedia Interface, a compact audio/video connector interface for transmitting uncompressed digital streams.
HDCP - High-bandwidth Digital Content Protection, a digital video encryption method to prevent unauthorized duplication of copyrighted video material
HDTV - High Definition Television, a digital television broadcasting system with greater resolution than traditional television systems.
Interlaced - A method of doubling the vertical resolution on a display by alternately displaying the odd and even scan lines.
IP - Internet Protocol.
IRE - (Institute of Radio Engineers). A measure of video level (voltage), where 100 is peak-white level and 0 is black level (-40 being sync tip).
Jitter - A term referring to instability in a signal (usually referring to a clock).
Keying - A term for compositing two full frame images together, by discriminating the visual information into values of color and light: See also Chroma Key and Luma Key.
Layer - Referring to each individual image when multiple images are placed on one screen, such as a background video input, two windows containing video and logos etc.
LCD - Liquid Crystal Display, a is a thin, flat display device made up of any number of color or monochrome pixels arrayed in front of a light source or reflector.
Lock source - Defines the original synchronization source used while genlocking or mixing two video signals.
Loop-thru - A feature that allows the video signal to be passed through a device unprocessed and sent to a local monitor or other device.

GLOSSARY OF TERMS - Continued

Luma Key - Applies transparency to regions (pixels) in an image which fall into a particular range of brightness, usually to reveal an background image.
Luminance Channel - The component of a video signal carrying the black and white information.
Matrix Switcher - An electronic device that accepts and distributes video (and/or audio) signals selected from multiple inputs and multiple outputs.
Mbps - Megabits per Second, a unit of data transfer rate; 1Mbps=1,000,000 bits per second.
MHz - MegaHertz, a unit for frequency measurement; 1MHz=1,000,000Hz
Mix - The combining of two images on a single output, e.g. Picture in Picture.
Multimedia - Any combination of multiple visual and aural media.
Multi-viewer - A term used for a device that allows viewing of multiple images in windows on a single screen.
Non-volatile Memory - A chip within a piece of hardware that can store and retain settings even when the unit is switched off.
NTSC, PAL, SECAM - Analog television video standards used in various countries.
Ohm - A measure of resistance or impedance in components, connectors or cables.
Operating Temperature Range - The prescribed ambient temperature range for proper equipment operation.
Operating Humidity Range - The prescribed relative humidity range for proper equipment operation.
Overlay - An image is placed on top of another image and the top image is partly Keyed to reveal the source in the background.
PC - Personal Computer.
PCI/ISA - A computer bus for attaching peripheral devices or cards to a computer motherboard.
PIP - Picture-in-Picture, when one image is displayed as full screen at the same time as another image is displayed in an inset window.
Progressive Scan - A method of displaying an image on a screen in a path similar to text on a page: line by line, from top to bottom.
Resolution - The number of horizontal and vertical pixels within an image.
RF - Radio Frequency, frequencies high enough to be transmitted in free space.
RGB, RGBHV, RGBS, RGsB - An analog video signal containing separate chroma information (Red, Green and Blue), embedded sync (RGsB) or separate sync (RGBS).
RS-232 - A standard for serial binary data signals connecting between a DTE (Data terminal equipment) and a DCE (Data Circuit-terminating Equipment).
RU - Rack Units, a unit of measure for vertical space in equipment racks; 1 RU = 1.75" (44.5mm).
S-Video, (YC) - An analog video format that keeps luminance and chrominance separate.
Sample Rate Conversion - Increasing or decreasing the number of samples per second - usually for audio signals.
Scaling - The process of changing the resolution or size of an image.
Scan Conversion - A technique for changing or decreasing the vertical/horizontal scan frequency of a video signal .
SD - Standard Definition
SDI - Serial Digital Interface, a digital video interface used for broadcast-grade video.
SDTV - Standard Definition Television, a legacy television system that has normal resolution as opposed to newer HDTV or other forms of enhanced definition formats.
Seamless Switching - A feature that prevents source signal switching from being observed on an output.
Signal-to-Noise Ratio (S/N) - A logarithmic unit of measure comparing the level of the desired signal to the level of noise; generally, the higher the S/N, Ratio, the better.
Single Link DVI - A digital transmission system of four twisted pairs of wire (R, G, B and Clock) to transmit 24 bits per pixel.
SMPTE 259M - Standard Definition SDI (Serial Digital Interface) standard.
SMPTE 292M - High Definition SDI standard.
S/PDIF - Sony/Philips Digital Interconnect Format, an audio standard very similar in format to AES3-id, but usually at different voltage levels and different embedded information.
Storage Temperature Range - The prescribed ambient temperature range for safe storage.
Storage Humidity Range - The prescribed relative humidity range for safe storage.
Terminals (Terminal Blocks) - A convenient means of connecting individual electrical wires, by baring their ends and using a screw-down clamp.
THD - Total Harmonic Distortion, a measure of audio quality.
TOSLINK Audio - Digital audio transmission that uses an optical cable to pass audio information between devices
Transition - One image is replaced by another via a smooth fade and/or wipe change.
Tri-Level Sync - Describes the synchronization signal type present on HDTV YPbPr signals. It is used to provide a more accurate synchronization when decoding HDTV.
Twisted-pair cable - two differential signals are sent over two wires twisted together, such that noise on one allows cancellation of the noise at the receiver.
Unbalanced Audio - An audio signal that is carried on two wires (or three wires for stereo pair) with one wire at ground potential.
Up Conversion - The process of increasing the resolution of an image.
UTP - Unshielded Twisted Pair, also referred to as Cat.5/5E or Cat.6.
Vertical Interval - The beginning lines of the video signal that is not visible on the screen.
Vertical Interval Switching - Changing between two synchronized video sources in the unseen vertical interval to avoid visual glitches.
Video Wall - An array of displays configured to show a single image spread over all displays.
Widescreen - The general term used for aspect ratios greater than 4:3; usually 16:9 or greater.
Window - An inset area within a display that can show a separate image.
XLR Connector - An 3-pin electrical connector that is used mostly in professional audio and video electronics cabling applications.
YUV / YPbPr - A component video signal, comprising of Y (luminance) Pb (blue difference) and Pr (red difference) signals.